Operating Instructions

MODEL CHM MOTOR DRIVEN BRANDT COIN COUNTER AND PACKAGER

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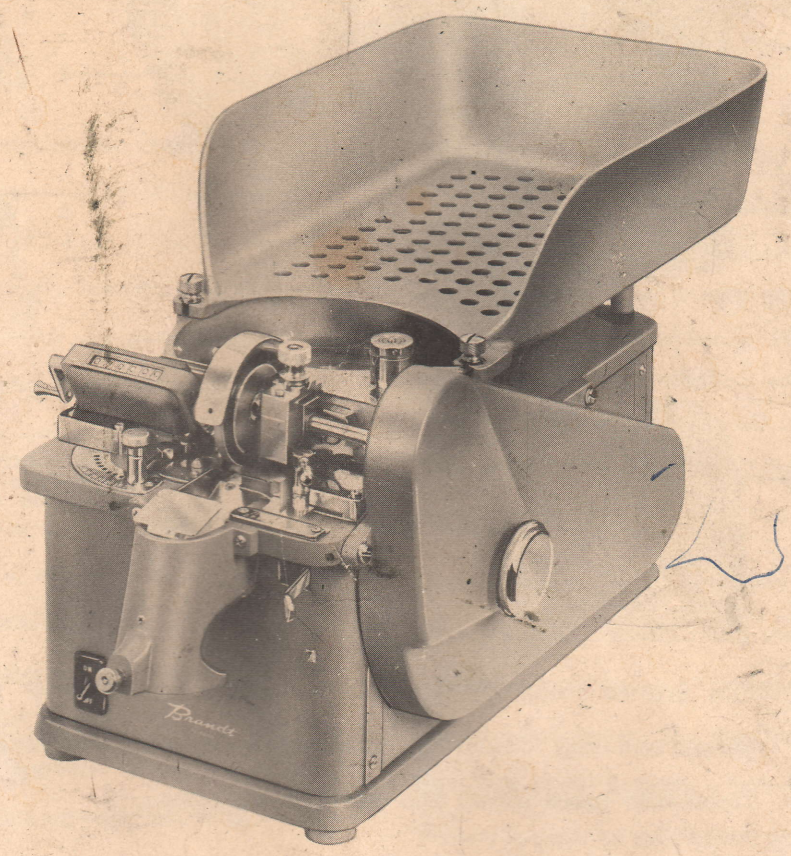
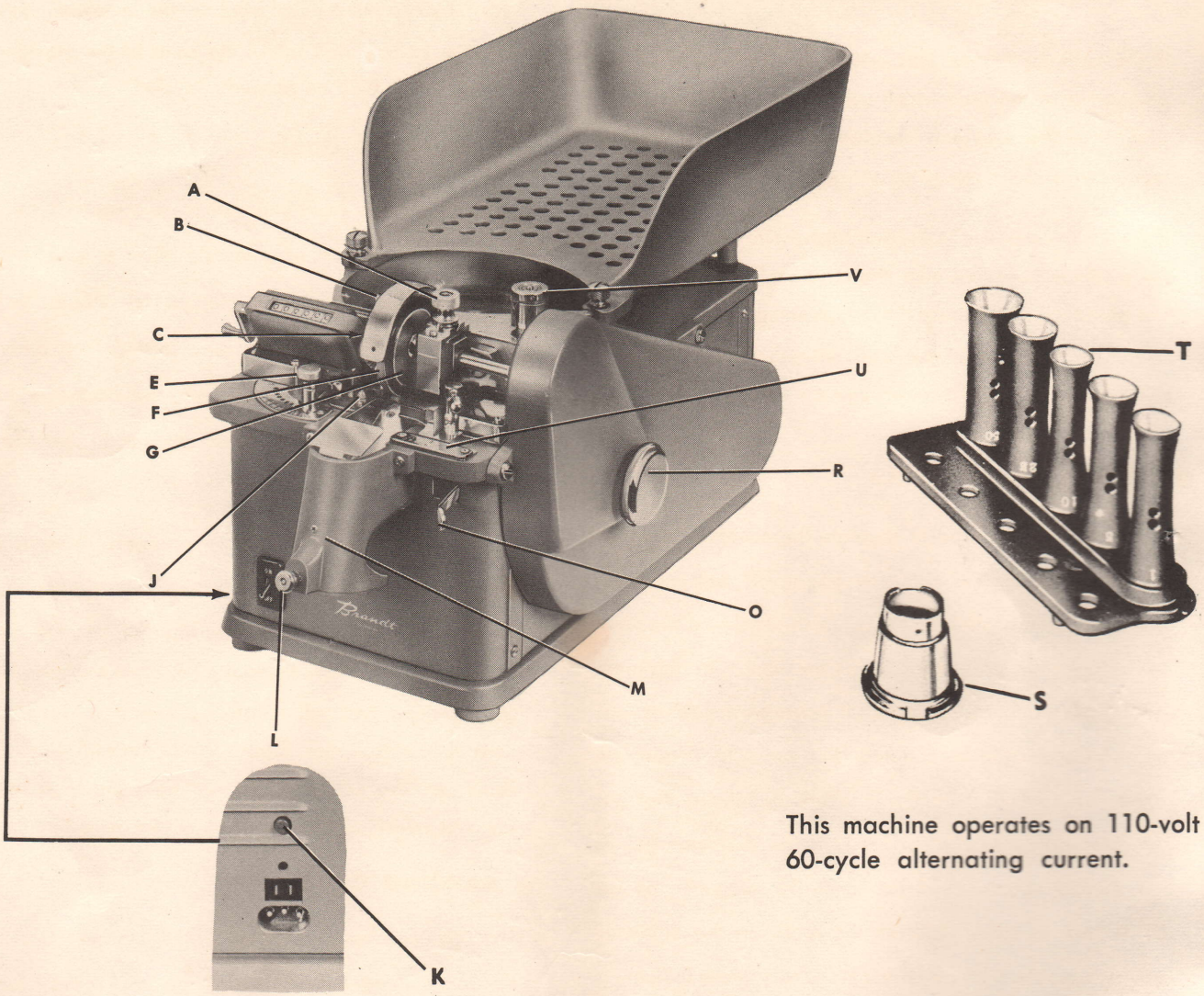


BRANDT AUTOMATIC CASHIER CO.

WATERTOWN WISCONSIN

OPERATING INSTRUCTIONS FOR MODEL CHM BRANDT COIN COUNTER AND PACKAGER



This machine operates on 110-volt 60-cycle alternating current.

The Brandt motor driven Coin Counter and Packager is simple and easy to operate. Coins can be counted and packaged with great speed and absolute accuracy.

The following instructions should be read before operating the machine and should be kept readily available for future reference. In the instructions, reference to various parts of the machine will be made by letter as shown above. After a few test runs with the machine, no difficulty should be experienced in its operation.

● CONNECTING TO POWER SUPPLY

Each machine is equipped with a three wire electric cord set and adaptor; the third wire is for grounding purposes.

If the wall receptacle into which the cord set is to be plugged is of the type which will accept the three prong plug, then the plug can be inserted directly into such a receptacle without using the adaptor.

If the wall receptacle is designed for a two pronged plug, the adaptor furnished with the cord set should be used. The green ground wire on the adaptor should be attached to the center screw in the wall receptacle and, in turn, the three prong plug inserted into the adaptor.

● SETTING THE CONTROLS

Three controls are used to regulate the counting of coins: a thickness gauge (V), diameter gauge (U) and predetermined count indicating lever (E). Each should be properly set before coins are placed in the machine. The thickness gauge (V) should be set so that it indicates the denomination of the coins to be counted. For example, if quarters are to be counted, turn the indicator handle so that the indicator points to "Q". Next turn the diameter gauge nut handle counter-clockwise until the diameter gauge (U) is free to move. Position the mark on the diameter gauge opposite the line on the stationary plate indicating the denomination of the coins to be counted. In other words, if quarters are to be counted, the mark on the diameter gauge should be opposite "Q" on the stationary plate. The diameter gauge nut must then be tightened.

The predetermined count indicating lever (E) controls the number of coins to be counted for packaging and also the continuous counting of coins into a bag. To set this lever, lift the knob and swing the lever to the figure indicating the quantity to be packaged, being sure the pin is seated in the hole opposite such figure. If coins are to be bagged or a continuous count is desired, the lever should be set at the letter B. If you find the lever cannot be set at a desired count, set star shaft (B) so that the arrow points toward the front of the machine. The lever can then be set where desired.

Whenever a predetermined count is set or the machine is changed from one predetermined count to another, run coins through until the machine stops and the arrow on the star shaft points to the front of the machine. Reset the counter to zero and return the coins to the machine. The machine will then be properly "cycled".

● PACKAGING COINS

The machine is equipped with a packaging tube (T) for each denomination of coin. To insert a tube into spout (M), the packaging tube plunger (L) should be pulled toward the operator. The tube should then be inserted and the plunger released. It may be necessary to move the tube about to allow the plunger to become properly seated.

For packaging coins in paper wrappers, there is a convenient trip mechanism built into this Brandt machine. After a coin wrapper has been inserted into the packaging tube as far as it will readily go, press the tube toward the machine and immediately allow it to return to its normal position; the machine will immediately deliver coins into the wrapper. Do not hold the tube in when tripping switch as this may give a miscount.

● BAGGING COINS

The ring type bagging attachment (S) is held in place by the same plunger used to hold the packaging tubes. To fasten a money bag, raise the ring, split section of the ring toward the operator. Slip the bag upward between the main part of the bagging attachment and the ring. Pull the bag through the split section of the ring so it fits snugly around the main section of the bagging attachment; then slide the ring down over the bag. The more coins in the bag, the tighter it will be held. Trip lever (O) must be pushed to the left to start the flow of coins.

● ADJUSTMENT OF EJECTOR WHEEL AND REPLACEMENT OF WORN TIRE

After much use it may be necessary to adjust the ejector wheel (G) to compensate for wear of the ejector wheel tire (F). To determine whether this must be done, set

thickness gauge (V) and diameter gauge (U) for dimes. Dimes should then be run through the machine. If they flow through in a steady stream and without jerky motion, no adjustment is necessary. Should the flow not be a steady one, then the ejector wheel should be lowered by turning knob (A) clockwise one-quarter turn or more if necessary. If the ejector wheel is lowered too much, the dimes will flow through with a jerky motion.

To replace a worn tire on the ejector wheel, unscrew ejector wheel nut (C) using a screwdriver. The tire can then be removed from the shaft and a new one installed. Be sure the new tire is completely on the hub of the wheel. Nut (C) should be securely tightened.

● JAMS AND OPERATION OF THE CIRCUIT BREAKER

If the machine jams due to overloading or as a result of mutilated coins or foreign matter, the operator should turn off the electric switch.

The turnback wheel (R) is for manual operation of the machine to dislodge mutilated coins or foreign matter from beneath the thickness gauge. It is used by pushing inwardly and rotating it back and forth to dislodge the cause of the jam. To facilitate clearing the machine of any obstruction at the thickness gauge, set lever (V) at H (half dollars) before operating the turnback wheel, thus allowing for maximum clearance between thickness gauge and the disk.

CAUTION — DO NOT ENGAGE TURNBACK WHEEL WHILE MACHINE IS RUNNING OR WHILE THE ELECTRIC SWITCH IS TURNED ON.

If a jam occurs in the machine and the electric switch is not turned off, the circuit breaker (K) will stop the motor. Before resetting the circuit breaker the electric switch should be turned off. The circuit breaker can usually be reset in about 30 seconds after the motor stops by pressing the red button located on the side of the machine: over the electric receptacle.

After the jam has been cleared and the circuit breaker reset the electric switch may be turned on.

● IF THE MACHINE DOES NOT OPERATE PROPERLY

If the machine does not operate properly, review the instructions covered in this booklet. See that all controls have been properly set. Check for proper adjustment of the ejector wheel. Be sure lever (O) has been pushed to the left before bagging coins.

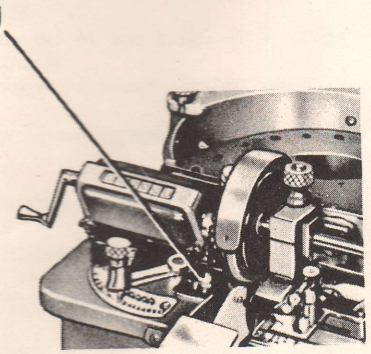
● MAINTENANCE

The Brandt Model CHM Coin Counter and Packager should be kept clean and free from dirt and dust. When not in use it should be covered. It should be dusted occasionally with a soft, dry cloth.

A small brush is handy for removing dust and dirt from hard to reach spots.

● OILING

Several drops of a good grade of light typewriter or adding machine oil should be placed once each month in the oiling plate (J). Do not allow oil to get into the switch or circuit breaker.



The following pages contain Parts Lists for the Model CHM Counter and Packager

HOW TO ORDER REPAIR PARTS

You will receive faster service when ordering repair parts if the following procedure is followed:

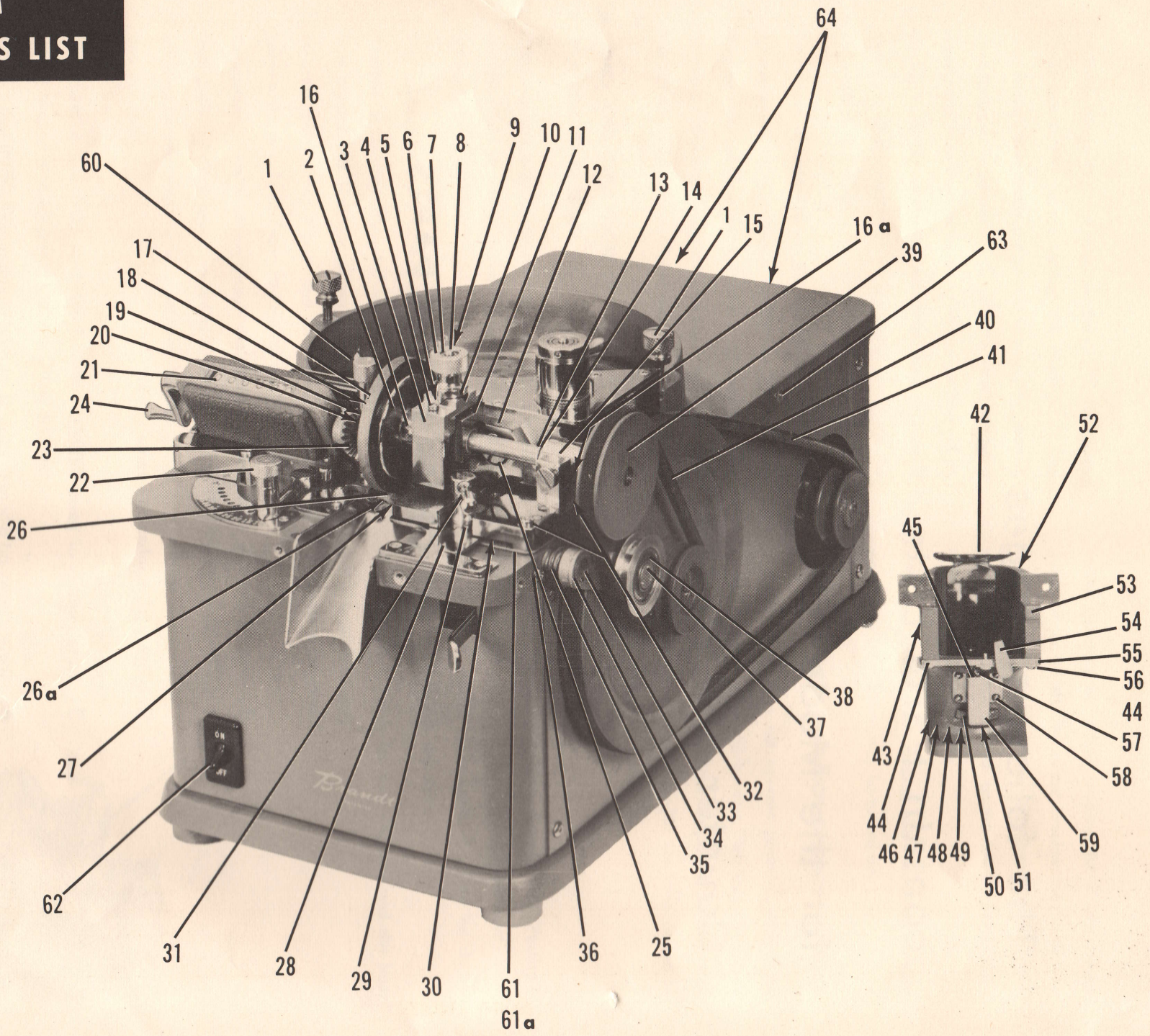
1. Give model and serial number of machine.
   (Example: Model CHM-143715).

2. Give part number and name of part.

3. State number of parts wanted.

4. Specify how and where to ship. If method of shipment is not designated, parts will be sent Parcel Post.

MODEL CHM
PARTS LIST

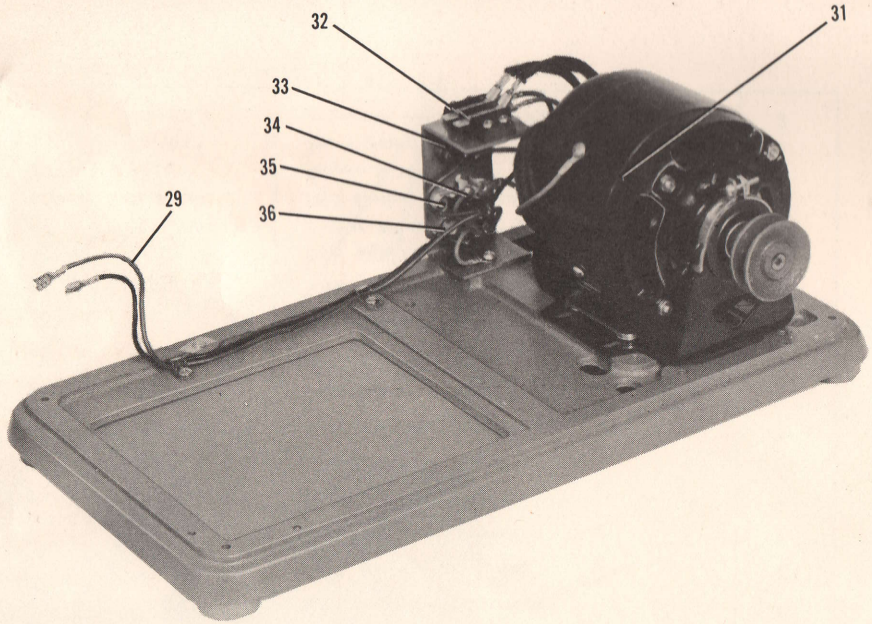


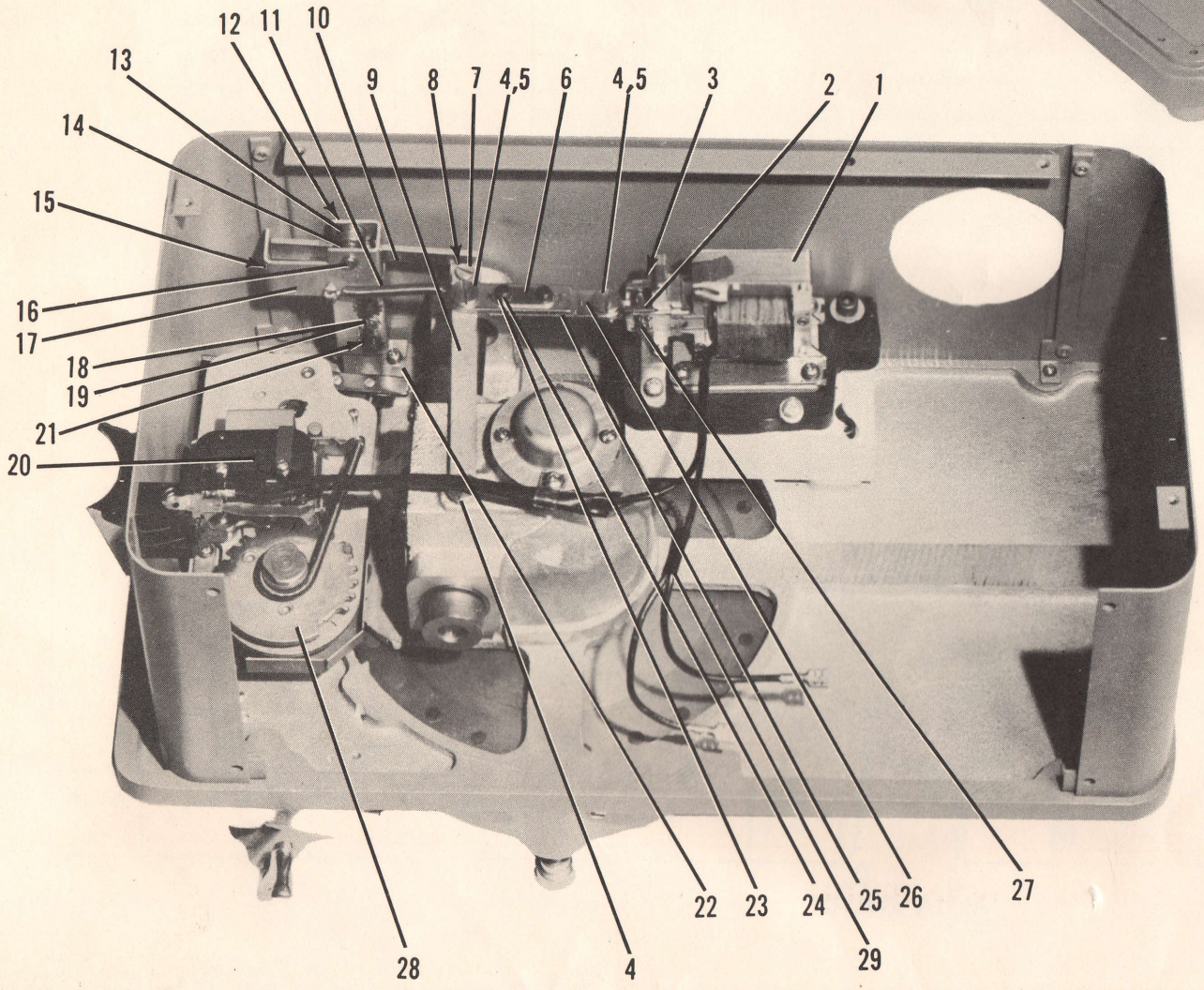
FRONT VIEW

REF. NO.	PART NO.	PART NAME	NO. REQ.
1	CA-104-1	Inspection Pan Screw	2
2	CA-16D	Ejector Wheel	1
3	CHM-18	Ejector Wheel Bearing Cap	1
4		¾" x 6-32 Fillister Head Screw	2
5	CDM-100A	Ejector Wheel Adjuster Screw	1
6	CA-114	Ejector Wheel Adjuster Knob	1
7	CA-127	Upper Ejector Wheel Adjuster Knob Washer	1
8		¼" x 4-40 R.H. Screw	1
9	CA-139	Ejector Wheel Adjuster Spring	1
10		3/16" x 4-40 Fillister Head Screw	1
11	SCDM-216-2	Left Ejector Shaft Bearing	1
12	SCDM-15	Ejector Wheel Hanger Assembly	1
13	P-214	Truarc E Retaining Ring	1
14	CDM-247	Ejector Wheel Shaft Washer	1
15	CDM-216-1A	Right Ejector Shaft Bearing	1
16		#2/0 x ¾ Taper Pin	1
16a		¼"x10-32 Set Screw	2
17	CA-146	Ejector Wheel Tire	1
18	CA-112B	Ejector Wheel Nut	1
19	CA-44A	Ejector Wheel Side Plate	1
20	P-222	Truarc Retaining Ring	1
21	CHM-270	Veeder Root Counter	1
22	SCA-14-2	Predetermined Count Indicating Lever Assembly #2	1
23	CA-147-2B	20 Tooth Bevel Pinion Gear	1
24	G-45569-3	Counter Reset Handle 6 Digit Counter	1
25	CDM-200A	Ejector Wheel Hanger Screw	1
26	SCAM-73	Counting Plate	1
26a	CAM-73-1	Counting Plate Shim .005	3
27		¼" x 4-40 Flat Head Screw	1
28	SCHM-26	Diameter Gauge	1
29	CA-126	Diameter Gauge Washer	1
30	SCHM-117	Coin Guide Rail	1
31	SCA-111	Diameter Gauge Nut	1

REF. NO.	PART NO.	PART NAME	NO. REQ.
32		¾" x 8-32 Fillister Head Screw	3
33	CDM-206	Belt Tightener Screw	1
34	CHM-162-1	Belt Tightener Assembly #2	1
35	CHM-215	Belt Tightener Spring	1
36		¼" x 6-32 R.H. Screw	1
37	P-124	Bearing	1
38	CHM-299	Belt Tightener Sheave	1
39	CHM-22	Ejector Shaft Pulley	1
40	P-601	V Belt	1
41	P-602	V Belt (Large)	1
42	SCDM-62	Bagging Spout Shield	2
43		½" x 4-40 Oval Head Screw	1
44		⅜" x 8-32 R.H. Screw	1
45	P-221	Truarc Retaining Ring	1
46	CHM-141	Packaging Tube Holding Plunger Tube	1
47	CHM-113	Packaging Tube Holding Plunger Nut	1
48	CHM-102	Packaging Tube Holding Plunger	1
49	CA-136	Packaging Tube Holding & Predetermined Count Lever Spring	1
50	SCDM-232	Tube Trip Plunger Assembly	1
51	CDM-231	Tube Trip Plunger Spring	1
52	SCHM-3	Packaging Spout Assembly	1
53	CHM-3	Packaging Spout Casting	1
54	CHM-234	Tube Trip Lever Assembly	1
55	CDM-174B	Tube Trip Lever Support	1
56	CDM-175B	Tube Trip Lever Strap	1
57		¼" x 6-32 R.H. Screw	1
58		¼" x 2-56 R.H. Screw	4
59	CHM-230A	Tube Trip Plunger Guide Shield	1
60	CA-107	Coin Agitator	3
61	CDM-48B	Ejector Wheel Support Shim	1
61a	CDM-48-1	.005 Ejector Wheel Support Shim	3
62	P-524	Toggle Switch	1
63	CA-104-2	Drive Guard Screw	2
64	CA-103	Inspection Pan Locating Pin	2

MODEL CHM
PARTS LIST

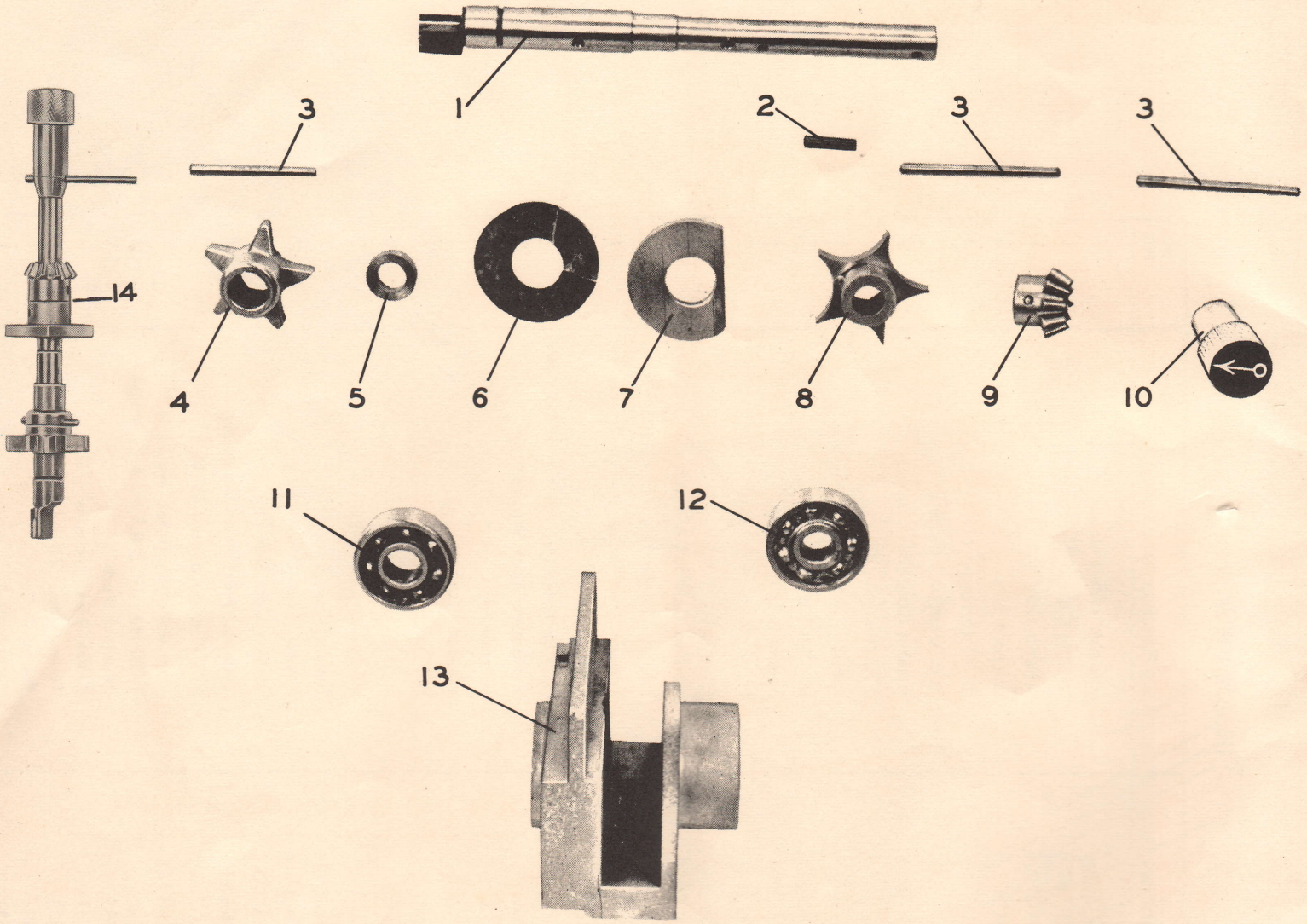




INSIDE VIEW

REF. NO.	PART NO.	PART NAME	NO. REQ.
1	P-501	Solenoid with Plunger	1
2	CHM-163-A	Tension Cam Link Connector	1
3	CHM-272-A	Tension Cam Link Pin Nut	1
4	CHM-208-B	Solenoid Link Arm Pivot Screw	3
5		#8-32 Hexagon Nut	3
6	CDM-268	Trip Lever Lock Plate	1
7	CHM-185A	Tension Cam Link Screw	1
8		6-32 Hexagon Nut	1
9	CHM-188-B	Tension Cam Connecting Link	1
10	CHM-109 B	Tension Cam	1
11	CHM-286	Solenoid Link Spring	1
12	P-221	Truarc Retaining Ring	2
13	CHM-243C	Trigger Spring Plunger Roller	2
14	CHM-236B	Tension Cam Roller Spacer	1
15	SCHM-17	Trigger Plunger Housing Assembly	1
16	CHM-182	Tension Cam Roller Shaft	1
17	SCHM-166	Tension Cam Roller Bracket	1
18		¼" x 6-32 Hexagon Socket Head Cap Screw	3
19	P-1146	Shakeproof Lock Washer	2
20	P-511	Microswitch	1
21		#6 Flat Washer	1
22	CHM-17	Trigger Plunger Housing	1
23		⅜" x 6-32 Hexagon Socket Head Cap Screw	2
24	P-1206	Shakeproof Lockwasher	2
25	CHM-57-2B	Tension Cam Link #2	1
26	CHM-57-1C	Tension Cam Link #1	1
27	CHM-273-C	Tension Cam Link Pin	1
28	SCHM-21	Counting Mechanism Assembly	1
29		#18 Plastic Covered Wire	1
30	SCHM-182	Cam Roller Shaft Sub Assembly	1
31	P-540	1/20 H.P. 1725 R.P.M. A.C. Motor	1
32	P-585	Terminal Block	1
33	P-561	Klixon Reset Protector	1
34	P-535	Power Outlet (Ground)	1
35	P-534	Power Outlet	1
36	P-532	Receptacle	1

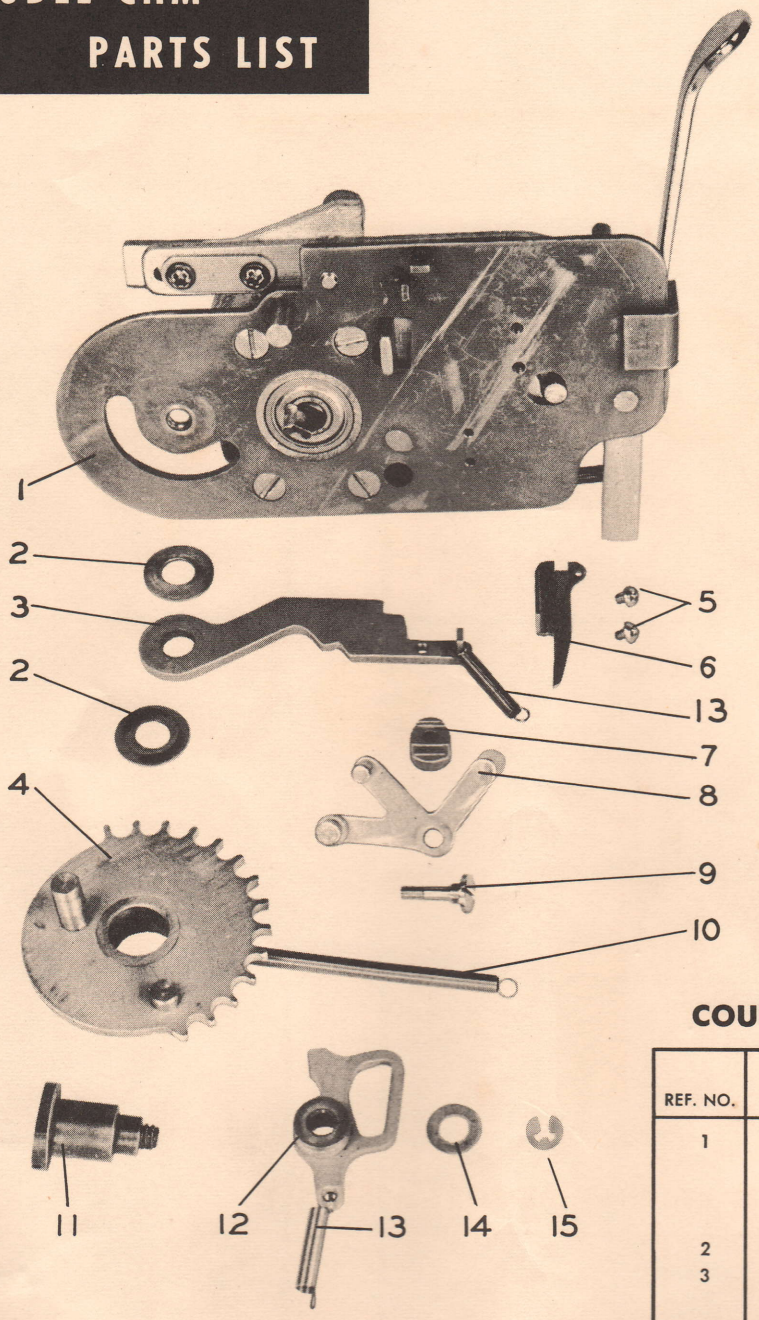
MODEL CHM
PARTS LIST



STAR SHAFT BEARING SUPPORT ASSEMBLY

REF. NO.	PART NO.	PART NAME	NO. REQ.
1	SCHM-70	Counting Star Shaft	1
2		.094 x .437 Roll Pin	1
3		#5/0 x 1¼" Taper Pin	3
4	CA-72C	Lower Star	1
5	CA-123	Upper Star Spacing Collar	1
6	CA-153B	Star Plate Shim	1
7	CA-128B	Star Plate	1
8	CA-71A	Upper Star	1
9	CA-147-1C	Ten Tooth Bevel Pinion Gear	1
10	CA-119C	Star Shaft Knob	1
11	P-122	Bearing	1
12	P-121	Bearing	1
13	CHM-21	Star Shaft Bearing Support	1
14	SCA-119	Star Shaft Knob Sub Assembly	1

MODEL CHM
PARTS LIST



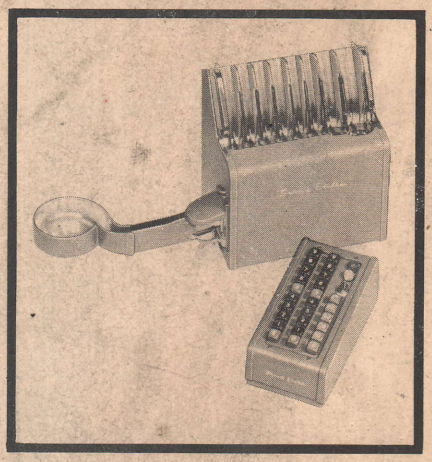
COUNTING MECHANISM ASSEMBLY

REF. NO.	PART NO.	PART NAME	NO. REQ.
1		Star Shaft Bearing Support Assembly and Lower Star Pawl Plate Assembly Attached to Top of Counting Mechanism Plate	1
2	CHM-297	Counting Wheel Spacer	2
3	SCAM-35	Predetermined Count Starting Lever Catch Assembly	1
4	SCHM-33	Counting Wheel Assembly	1
5		1/8" x 4-40 R.H. Screw	2
6	SCHM-50	Predetermined Count Stop Lever Guide	1
7	CAM-157	Stop Pawl Link Spacer	1
8	SCHM-160	Counting Wheel Stop Pawl Link Assembly	1
9	CAM-122A	Stop Pawl Link Screw	1
10	CDM-138	Counting Wheel Spring	1
11	CHM-105	Counting Wheel Screw	1
12	SCHM-36	Counting Wheel Stop Pawl Assembly	1
13	CA-135-1A	Stop Pawl Spring	2
14	BA-48	Rocker Spacing Washer	1
15	P-212	Truarc Retaining Ring	1

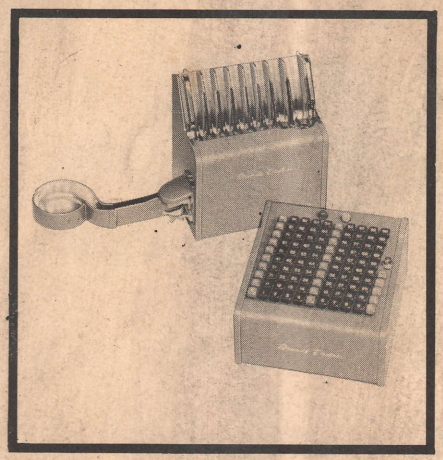
BRANDT

for all coin handling requirements

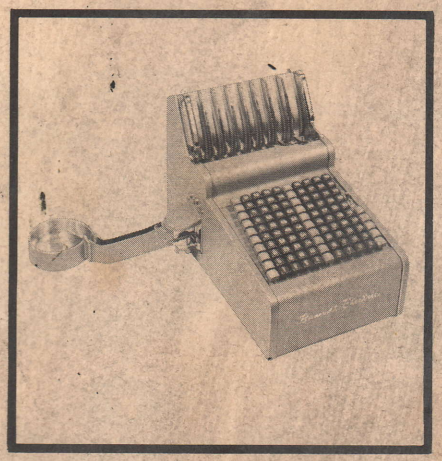
Brandt Automatic Cashiers, both electrically and manually operated, are made in several types. All of these machines feature an automatic coin lock which prevents payments being made when coins fall to a low point, also change accommodation keys to deliver split change.



MODEL 502 BRANDT ELECTRIC AUTOMATIC CASHIER — Abbreviated Keyboard Type. Consists of two units, a coin dispenser and a separate, small, simplified keyboard. The keyboard unit may be placed apart from the coin dispenser unit anywhere in the teller's work area. Lighter key pressure required than with manually operated machines. Coins are delivered directly to customers by means of a delivery chute.

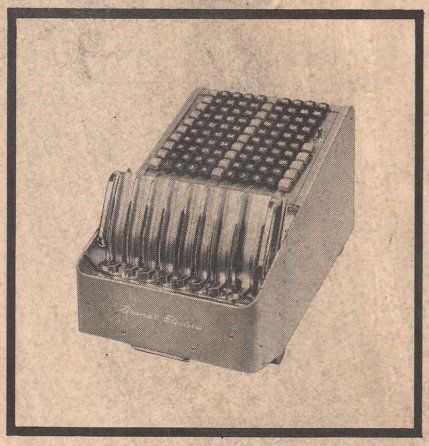


MODEL 500 BRANDT ELECTRIC AUTOMATIC CASHIER — Full Keyboard Type. Consists of two units, the same coin dispenser as the Model 502 and a separate keyboard having a full range of keys, thus requiring the depression of only a single key to make a coin payment ranging from 1¢ to 99¢, inclusive. Keyboard may be placed anywhere, to suit the convenience of the operator.



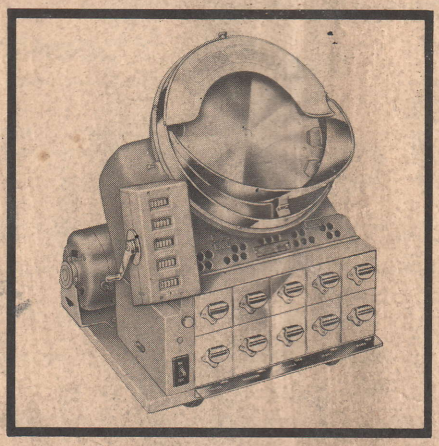
MODEL 450 BRANDT ELECTRIC AUTOMATIC CASHIER — Single Unit, Delivery Chute Type. Coin dispenser and keyboard combined into a single unit. Only one key is depressed to pay any amount from 1¢ to 99¢, inclusive. Coins are delivered direct to customer by means of a delivery chute.

MODEL 250 BRANDT AUTOMATIC CASHIER. Similar to the Model 450 except that it is operated manually instead of electrically.

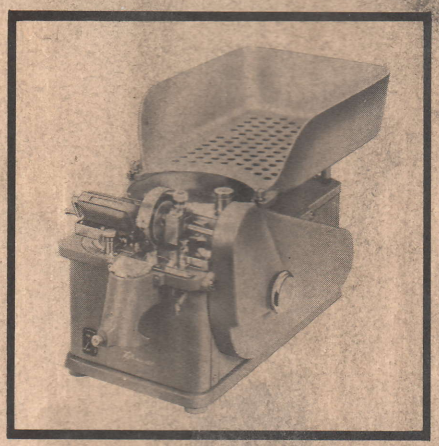


MODEL 350 BRANDT ELECTRIC AUTOMATIC CASHIER — Trap Door Type. The teller depresses a single key to make payment of amounts from 1¢ to 99¢, inclusive. Coins fall into a hopper at front of machine. A slight backward pressure on the trap door at the base of the hopper allows the coins to fall into the teller's hand; coins are passed to the customer by the teller.

MODEL 150 BRANDT AUTOMATIC CASHIER. Similar to the Model 350 except that it is operated manually instead of electrically.



MODEL SL BRANDT COIN SORTER AND COUNTER — Motor Driven. Sorts and counts mixed coins, pennies to half dollars, inclusive. If desired, this machine can be furnished with double counting dials. One set of dials records each denomination of coin in dollars and cents and the other set records each denomination of coin numerically. Auxiliary items such as stand, bagging attachments, built-on inspection pan and others for use with this machine can be furnished if they are desired.



MODEL CHM BRANDT COIN COUNTER AND PACKAGER — Motor Driven. Handles all coins from pennies to silver dollars, inclusive. Mechanical improvements make for speedier packaging or bagging of coins with less effort. A number of auxiliary items including stand, crimper and others are available for use with this equipment. Hand operated machine is also available.

Brandt also manufactures a variety of coin storage trays as well as a complete line of coin wrappers and bill straps.

BRANDT AUTOMATIC CASHIER COMPANY • WATERTOWN, WIS.

Established 1890

Brandt® Cashier®

BAC — 449

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